

Claims

1. An insulator integrated with a clamp, comprising:
a center rod comprised of an insulating rod made of a
glass material, and an insulating coating made of a polymer
5 material to cover the insulating rod;
a connecting cap connected to a first end of the
center rod; and
the clamp comprised of a body provided with a wedge-
shaped casing unit having an inner space formed to narrow
10 toward an end of the casing unit and a connecting unit
formed on one end of the casing unit, and a pair of jaw
elements disposed in the inner space of the casing unit and
pushed inward by springs, so that an interval between the
jaw elements is reduced to perform a clamping operation,
15 the connecting unit being fixedly connected to a second end
of the center rod.

2. The insulator integrated with a clamp according to
claim 1, wherein the connecting unit of the clamp is formed
in a pipe shape with a diameter slightly greater than a
20 diameter of the insulating rod, so that a first end of the
insulating rod is tightly fitted into the connecting unit,
thus enabling the clamp and the center rod to be fixedly
connected to each other.

3. The insulator integrated with a clamp according to

claim 1, wherein:

the casing unit of the clamp is formed to have a fully opened top; and

5 the clamp further comprises separate cover panels attached to tops of both sidewalls of the casing unit so that the cover panels partially cover the opened top and then prevent the jaw elements included in the casing unit from deviating upward from the casing unit.

10 4. The insulator integrated with a clamp according to claim 1, wherein the clamp further comprising the two guide channels are formed in the bottom of the casing unit to providing sliding routes of the jaw elements, and a limitation stub formed in at least one of said guide
15 channels to limit the jaw elements' movement.